#5

SEQUENCE LISTING

<110> GREEN, Sol Alexander
FRIEL, Ellen Nicola
BEUNING, Lesley Leah
MACRAE, Elspeth Ann

<120> Plant alpha farnesene synthase and polynucleotides encoding same

<130> 38-05

<140> 10/531,357

<141> 2005-04-14

<150> PCT/NZ2003/000229

<151> 2003-10-15

<150> NZ 521984

<151> 2002-10-15

<160> 14

<170> PatentIn version 3.1

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<213> Malus domestica

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aaacccgaac ctgaagcctc ttacttgatt aatcaaagac ggtctgcaaa ttacaagcca 180

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Arg Arg Ser Ala Asn Tyr Lys Pro Asn Ile Trp Lys Asn Asp Phe Leu
35 40 45

Asp Gln Ser Leu Ile Ser Lys Tyr Asp Gly Asp Glu Tyr Arg Lys Leu
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Ser Glu Lys Leu Ile Glu Glu Val Lys Ile Tyr Ile Ser Ala Glu Thr
65 70 75 80

Met Asp Leu Val Ala Lys Leu Glu Leu Ile Asp Ser Val Arg Lys Leu
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Gly Leu Ala Asn Leu Phe Glu Lys Glu Ile Lys Glu Ala Leu Asp Ser
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Ser Leu Thr Leu Ala Leu Arg Asp Ser Gly His Ile Cys Tyr Pro Asp
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Lys Asp Ile Cys Arg Val Asn Ala Thr Leu Leu Glu Leu Ala Lys Leu
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Asn Phe Asn Val Val Gln Ala Gln Leu Gln Lys Asn Leu Arg Glu Ala
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Ser Arg Trp Trp Ala Asn Leu Gly Phe Ala Asp Asn Leu Lys Phe Ala
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Glu Pro Glu His Ser Ser Phe Arg Ile Cys Leu Thr Lys Val Ile Asn
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Glu Leu Lys His Phe Thr Asn Ala Val Asp Arg Trp Asp Ser Arg Glu
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Met Ala Asp Phe Leu His Lys Asn Glu Asp Leu Leu Tyr Asn Ile Ser
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Asn Ala Ser Glu Glu Thr Ala Arg Lys Asn Ile Lys Gly Met Ile Asp
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Asn Ala Trp Lys Lys Val Asn Gly Lys Cys Phe Thr Thr Asn Gln Val
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Pro Phe Leu Ser Ser Phe Met Asn Asn Ala Thr Asn Met Ala Arg Val
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Ala His Ser Leu Tyr Lys Asp Gly Asp Gly Phe Gly Asp Gln Glu Lys
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acgatctcta tgctactgca ttacacttca agatcctcag gcagcatggc tataaagttt 180

cacaagatat atttggtaga ttcatggatg aaaagggcac attagagaac caccatttcg 240

cgcatttaaa aggaatgctg gaacttttcg aggcctcaaa cctgggtttc gaaggtgaag 300

atattttaga tgaggcgaaa gcttccttga cgctagctct cagagatagt ggtcatattt 360

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tccaaaaaaa cttaagggaa gcatccaggt ggtgggcaaa cctgggcatc gcagacaact 600

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20 25 30

Ser Asp Asn Leu Gly Thr Arg Asp Asp Leu Tyr Ala Thr Ala Leu His
35 40 45

Phe Lys Ile Leu Arg Gln His Gly Tyr Lys Val Ser Gln Asp Ile Phe
50 55 60

Gly Arg Phe Met Asp Glu Lys Gly Thr Leu Glu Asn His His Phe Ala
65 70 75 80

His Leu Lys Gly Met Leu Glu Leu Phe Glu Ala Ser Asn Leu Gly Phe
85 90 95

Glu Gly Glu Asp Ile Leu Asp Glu Ala Lys Ala Ser Leu Thr Leu Ala
100 105 110

Leu Arg Asp Ser Gly His Ile Cys Tyr Pro Asp Ser Asn Leu Ser Arg
115 120 125

Asp Val Val His Ser Leu Glu Leu Pro Ser His Arg Arg Val Gln Trp
130 135 140

Phe Asp Val Lys Trp Gln Ile Asp Ala Tyr Glu Lys Asp Ile Cys Arg
145 150 155 160

Val Asn Ala Thr Leu Leu Glu Leu Ala Lys Leu Asn Phe Asn Val Val
165 170 175

Gln Ala Gln Leu Gln Lys Asn Leu Arg Glu Ala Ser Arg Trp Trp Ala
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